THIN CLAYPAN RANGE SITE

1. TOPOGRAPHY

a. This site is on nearly level glacial till plains and lake plains. Slopes are commonly less than three percent.

2. SOILS

- a. These are deep, somewhat poorly to moderately well drained soils. The surface soils are thin, medium to moderately fine textures underlain by a hardpan. The subsoils are finely textured soils, high in sodium, and are difficult to wet. Permeability is very slow and available water capacity is low.
- b. Soil taxonomic units common to this site are:

Exline silt loam and silty clay loam Miranda loam and clay loam

Refer to Section II-A for a complete list of soil taxonomic units and range sites.

3. POTENTIAL VEGETATION

- a. Cool-season midgrasses dominate the general appearance of this site. Principal plants are western wheatgrass, blue grama, and prairie junegrass. Other species are Nuttall alkaligrass, green needlegrass, inland saltgrass, alkali muhly, and upland sedges. Forb species make up about 10 percent of the total herbage production. Shrub species occur in minor amounts on this site.
- b. Continued heavy grazing by cattle results in a decrease of western wheatgrass, prairie junegrass, Nuttall alkaligrass, green needlegrass, and needleandthread. Species that increase are blue grama, inland saltgrass, Sandberg bluegrass, and alkali muhly.

Continued deterioration of this site results in a dominance of short grasses, upland sedges, fringed sagebrush, and undesirable forbs.

c. Approximate total annual production of this site in excellent condition is 900 to 1300 pounds of air-dry herbage per acre, depending on growing conditions.

2--Thin Claypan Range Site

d. A detailed description of the vegetation in excellent condition is as follows:

Relative Percent Composition of the Potential Vegetation

	Mean I lbs/acre	Productivity % composition
Grasses Western wheatgrass Blue grama Prairie junegrass Nuttall alkaligrass	550 165 55 55	50 15 5
Green needlegrass Needleandthread Inland saltgrass Alkali muhly Sandberg bluegrass Other grasses	55	5
Grasslikes Penn sedge Needleleaf sedge Other sedges	55	· 5
Forbs Rush skeletonplant Lemon scurfpea Scarlet globemallow Western yarrow Bladderpod Other forbs	110	10
Shrubs and half-shrubs Fringed sagebrush Broom snakeweed Other shrubs	55	5
Total	11.00	100

4. DOMESTIC LIVESTOCK GRAZING VALUE

a. This site has a low stocking rate potential. Plant recovery is easily destroyed by overuse and recovery is slow. The best season of use is fall for maintaining good plant cover. Cattle are more suitable for grazing than sheep due to a lack of plant diversity.

5. WILDLIFE NATIVE TO THE SITE

a. This site provides some forage for white-tailed deer and antelope. It is used by small mammals such as the jackrabbit, skunk, and prairie dog. Upland songbirds commonly found are the lark bunting, horned lark, chestnut-collared longspur, and goldfinch.

6. ESTHETIC AND RELATED VALUES

a. This site is a part of the upland prairies and the esthetic values of this range site are enhanced by surrounding sites that offer more plant variety. Certain species of wildlife such as the burrowing owl and prairie dog are attracted to this site for its sparse cover.

7. HYDROLOGIC CHARACTERISTICS

a. Runoff is slow to medium on good to excellent condition, properly grazed range. Water transmission rate of the soil is very slow.

8. A TYPICAL SITE LOCATION IN THIS AREA IS AS FOLLOWS

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